Amendments to Claims

1. (Currently amended) A process for producing low molecular weight, granular polytetrafluoroethylene or modified polytetrafluoroethylene having a melt viscosity of less than about 1 x 10^6 Pa·S in a suspension polymerization process comprising polymerizing pressurized tetrafluoroethylene in an agitated reaction vessel which contains aqueous medium, free radical initiator, and a telogen~~,~~; agitating the contents of said reaction vessel during polymerization sufficiently to coagulate polytetrafluoroethylene or modified polytetrafluoroethylene; and isolating said granular polytetrafluoroethylene or modified polytetrafluoroethylene having a melt viscosity of less than about 1 x 10^6 Pa·S directly from said reaction vessel, said modified polytetrafluoroethylene having about 0.002 to about 0.20 mole% of comonomer.

2. (Original) The process of claim 1 wherein said agitation of said contents of said reaction vessel is sufficient to coagulate greater than 90% by weight of said low molecular weight polytetrafluoroethylene or modified polytetrafluoroethylene.

3. (Original) The process of claim 1 wherein said agitation of said contents of said reaction vessel is sufficient to coagulate greater than 95% by weight of said low molecular weight polytetrafluoroethylene or modified polytetrafluoroethylene.

4. (Original) The process of claim 1 wherein said agitation of said contents of said reaction vessel is sufficient to coagulate greater than 98% by weight of said low molecular weight polytetrafluoroethylene or modified polytetrafluoroethylene.

5. (Currently amended) The process of claim 1 wherein said contents of said reaction vessel ~~is essentially free of surfactant~~comprises surfactant in an amount less than 0.010% based on the amount of water present.

6. (Original) The process of claim 1 wherein prior to isolation said contents of said reaction vessel has a polymer solids level of greater than 15%.

7. (Original) The process of claim 1 wherein prior to isolation said contents of said reaction vessel has a polymer solids level of greater than 20%.

8. (Original) The process of claim 1 wherein said low molecular weight polytetrafluoroethylene or modified polytetrafluoroethylene is produced without irradiation.

9. (Original) The process of claim 1 wherein said telogen comprises a non-fluorine-containing organic compound.

10. (Original) The process of claim 1 wherein said telogen is selected from the group consisting of aliphatic hydrocarbons containing 1 to 6 carbon atoms and aliphatic hydrochlorocarbons containing 1 to 6 carbon atoms.

11. (Original) The process of claim 10 wherein said telogen is an aliphatic hydrocarbon containing 1 to 6 carbon atoms.

12. (Original) The process of claim 1 wherein said polymerizing is carried out by providing a precharge comprising tetrafluoroethylene and telogen in said reaction vessel and introducing additional tetrafluoroethylene to said reaction vessel as said polymerizing proceeds, said telogen being present in a concentration of about 0.5 mole% to about 20 mole% based upon total tetrafluoroethylene and telogen present in said precharge.

13. (Original) The process of claim 1 wherein said polymerizing is carried out by providing a precharge comprising tetrafluoroethylene and telogen in said reaction vessel and introducing additional tetrafluoroethylene to said reaction vessel as said polymerizing proceeds, said telogen being present in a concentration of about 0.5 mole% to about 10 mole% based upon total tetrafluoroethylene and telogen present in said precharge.

14. (Original) The process of claim 1 wherein said polymerizing is carried out by providing a precharge comprising tetrafluoroethylene and telogen in said reaction vessel and introducing additional tetrafluoroethylene to said reaction vessel as said polymerizing proceeds, said telogen being present in a concentration of about 0.5 mole% to about 5 mole% based upon total tetrafluoroethylene and telogen present in said precharge.

15. (Original) The process of claim 1 wherein said polytetrafluoroethylene or modified polytetrafluoroethylene has a melt viscosity in the range of about 1×10^2 Pa·S to about 1×10^6 Pa·S .

16. (Original) The process of claim 1 further comprising grinding said granular polytetrafluoroethylene or modified polytetrafluoroethylene.

17. (Original) A low molecular weight powder of polytetrafluoroethylene or modified polytetrafluoroethylene produced by the process of claim 1.

18. (Original) A low molecular weight powder of polytetrafluoroethylene or modified polytetrafluoroethylene produced by the process of claim 16.

19. (Original) The low molecular weight powder of claim 17 having a specific surface area of less than about $8m^2/g$.

20. (Original) The low molecular weight powder of claim 17 having a specific surface area of less than about $5m^2/g$.

21. (Original) The low molecular weight powder of claim 17 having a specific surface area of less than about $4m^2/g$.

22. (Original) The low molecular weight powder of claim 17 having a specific surface area of about $1m^2/g$ to about $4m^2/g$.

23. (Currently amended) The low molecular weight powder of claim 17 wherein the particles of said low molecular powder have a weight average particle size of about 2 to about 40 micrometers and the powder is ~~substantially~~ free of particles having a particle size of less than about 1 micrometer.

24. (Original) The low molecular weight powder of claim 23 wherein said particles have a D90/D10 particle size distribution ratio of about 2 to about 10.

25. (Original) The low molecular weight powder of claim 17 having an extractable fluoride level of 3 ppm or less by weight.

26. (Original) The low molecular weight powder of claim 17 having an extractable fluoride level of 1 ppm or less by weight.

27. (Original) The low molecular weight powder of claim 17 having a polydispersity index of about 5 or less.

28. (Original) The low molecular weight powder of claim 17 having a polydispersity index of about 4.5 or less.

29. (Original) The low molecular weight powder of claim 17 having a polydispersity index of about 4 or less.

30. (Original) An additive to ink compositions comprising a low molecular weight powder of polytetrafluoroethylene or modified polytetrafluoroethylene produced by the process of claim 1.

31. (Original) An additive to plastic compositions comprising a low molecular weight powder of polytetrafluoroethylene or modified polytetrafluoroethylene produced by the process of claim 1.

Claims 32 – 41 are cancelled.